

Search Bar

Search Bar The `<aava-search-bar>` component provides a comprehensive search input solution with integrated search and send icons. Built on top of the textbox component, it offers consistent styling, multiple size variants, and flexible configuration options for various search scenarios.

How to use

- import { AavaSearchBarComponent } from "@aava/play-core";

Basic Usage

- Simple search bar implementation with default settings and integrated search functionality.
- Basic Features
- Integrated Icons : Built-in search, send and close icons for intuitive user experience
- Textbox Foundation : Inherits all textbox functionality and styling
- Search Events : Emits search events when user click the send icon
- Responsive Design : Adapts to different screen sizes and container widths
- Accessibility : Full keyboard navigation and screen reader support
- Variants

 - Simple search bar implementation with default settings and integrated search functionality.
 - Available Variants
 - `closeButtonVisibility` : Controls the visibility behavior of the close (clear) button.

This input determines when the close button should be displayed based on the textbox content or user preference.

`sendButton` : Controls the visibility of the send button.

`searchIconColor` : Controls the search icon color

`sendIconColor` : Controls the send icon color

`Size`

- Four size variants to accommodate different interface densities and design requirements.
- Available Sizes
- `xs` (Extra Small) - Compact size for minimal interfaces (16px icon)
- `md` (Medium) - Standard size for most search scenarios (20px icon, default)
- `lg` (Large) - Prominent size for important search interfaces (24px icon)
- `xl` (Extra Large) - Very prominent size for high-visibility search (24px icon)

`Size Features`

- Proportional Scaling : Icon sizes scale appropriately with component size
- Consistent Spacing : Maintains proper proportions across all size variants
- Touch Targets : All sizes meet minimum touch target requirements
- Visual Hierarchy : Larger sizes provide better emphasis for primary search areas

`States`

- Different interaction states for various user scenarios and accessibility requirements.

`State Features`

- Default State : Normal interaction with full functionality
- Disabled State : Non-interactive state with visual feedback
- Focus State : Clear focus indicators for keyboard navigation
- Hover State : Subtle hover effects for interactive elements

`API Reference`

- Inputs
- Property Type
- Default Description
- `label string?` "Label text for the search input
- `disabled boolean false` Whether the search bar is disabled
- `variant string? "` Visual variant of the search bar
- `size 'xs' | 'md' | 'lg' | 'xl' | 'md'` Size variant of the search bar
- `searchIconColor string '#000000'` Color for the search icon
- `sendIconColor string '#000000'` Color for the send icon
- `sendButton boolean true` Whether the send button is shown
- `closeButtonVisibility 'auto' | 'always' | 'hidden'` Close button visibility

`Outputs`

- Event Type
- Description
- `searchClick EventEmitter<string>` Emitted when user clicks the send icon
- `searchChange EventEmitter<string>` Emitted when the search input value changes
- `onClose EventEmitter<string>` Emitted when the close button is clicked

`Best Practices`

- Design Guidelines
- Clear Visual Hierarchy : Use appropriate sizes for primary vs. secondary search areas
- Consistent Iconography : Maintain consistent icon colors across your application
- Accessible Contrast : Ensure sufficient contrast

between icons and backgrounds

Responsive Sizing : Choose sizes that work well on all target devices

Brand Consistency : Use icon colors that align with your brand guidelines

Accessibility ■

Keyboard Navigation : Ensure full keyboard accessibility for all interactions

Screen Reader Support : Provide clear labels and descriptions for search functionality

Focus Management : Maintain clear focus indicators for all interactive elements

ARIA Labels : Use appropriate ARIA attributes for search context

Color Independence : Don't rely solely on color to convey information

Performance ■

Event Handling : Debounce search input events for better performance

Icon Optimization : Use optimized SVG icons for consistent rendering

Change Detection : Leverage OnPush strategy for optimal performance

Memory Management : Clean up event listeners and subscriptions properly

Bundle Size : Import only needed components to minimize bundle size

User Experience ■

Clear Purpose : Make it obvious that this is a search input

Visual Feedback : Provide immediate feedback for user interactions

Search Suggestions : Consider adding autocomplete or search suggestions

Loading States : Show loading indicators during search operations

Error Handling : Provide clear error messages for failed searches

Implementation Considerations ■

State Management : Properly manage search state in your application

Search Logic : Implement efficient search algorithms and data structures

API Integration : Handle search API calls with proper error handling

Caching : Cache search results for better performance

Analytics : Track search usage for user behavior insights

Search Functionality ■

Real-time Search : Consider implementing search-as-you-type functionality

Search History : Maintain search history for user convenience

Search Filters : Add filtering options for refined search results

Search Results : Design clear and organized search result displays

Search Analytics : Monitor search patterns and popular queries

Technical Notes ■

The search bar component extends the textbox component:

Inheritance : Extends AvaTextboxComponent for consistent behavior

Composition : Uses IconComponent for search and send icons

Change Detection : Implements OnPush strategy for optimal performance

Styling : Inherits textbox styling with search-specific customizations

Icon System ■

The component implements a flexible icon system:

Dynamic Sizing : Icon sizes are computed based on component size

Color Management : Handles disabled states with CSS variable fallbacks

Slot System : Uses Angular slot system for icon positioning

Interactive Elements : Send icon is clickable with proper cursor styling

Event Handling ■

The component manages multiple event types:

Input Changes : Tracks search value changes in real-time

Search Triggers : Emits search events when send icon is clicked

Textbox Events : Inherits all textbox event handling

Icon Interactions : Handles icon-specific interactions and styling

Size Mapping ■

The component maps size variants to icon dimensions:

- XS** : 16px icons for compact interfaces
- MD** : 20px icons for standard usage (default)
- LG** : 24px icons for prominent interfaces
- XL** : 24px icons for high-visibility areas

CSS Integration ■

The component integrates with the design system:

CSS Variables : Uses semantic CSS variables for theming

Responsive Design : Adapts to different screen sizes

State Management : Handles various component states

Accessibility : Maintains proper contrast and focus indicators

```

<aava-search-bar
  placeholder="Enter your search term...""
  [closeButton]="true"
  (searchClick)="onSearchClick($event)"
  (searchChange)="onSearchChange($event)"
  (onClose)="onClose($event)"
></aava-search-bar>

---

onSearchClick(searchTerm: string) {
  console.log('Search clicked with term:', searchTerm);
}
onSearchChange(event: Event) {
  console.log('Textbox changed:', this.currentInput);
}
onClose(searchTerm: string) {
  console.log('Clear search:', searchTerm);
}

<aava-search-bar closeButtonVisibility="always"></aava-search-bar>
<aava-search-bar closeButtonVisibility="hidden"></aava-search-bar>
<aava-search-bar
  closeButtonVisibility="always"
  [sendButton]="false"
></aava-search-bar>
<aava-search-bar [sendButton]="false"></aava-search-bar>

<aava-search-bar
  placeholder="Primary"
  searchIconColor="#3b82f6"
  sendIconColor="#3b82f6"
></aava-search-bar>

<aava-search-bar
  placeholder="Success"
  searchIconColor="#10b981"
  sendIconColor="#10b981"
></aava-search-bar>
<aava-search-bar
  placeholder="Warning"
  searchIconColor="#f59e0b"
  sendIconColor="#f59e0b"
></aava-search-bar>
<aava-search-bar
  placeholder="Danger"
  searchIconColor="#ef4444"
  sendIconColor="#ef4444"
></aava-search-bar>

```

```
<aava-search-bar placeholder="Extra Small" size="xs"></aava-search-bar>
<aava-search-bar placeholder="Medium" size="md"></aava-search-bar>
<aava-search-bar placeholder="Large" size="lg"></aava-search-bar>
<aava-search-bar placeholder="Extra Large" size="xl"></aava-search-bar>
```

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